

Claims

1. In a towed implement including a frame supported on a pair of ground wheels respectively mounted to opposite ends of an axle connected to the frame, the improvement comprising: a suspension for said axle including first and second arms respectively fixed to said axle at locations inward of said pair of ground wheels; first and second coupling assemblies respectively mounting said first and second arms to said frame and respectively including first and second bearing elements for normally establishing a horizontal transverse pivot axis about which said first and second arms may pivot vertically but also for permitting said bearing elements to move into positions for establishing a pivot axis that is not parallel to said horizontal transverse pivot axis without introducing bending loads into said bearing elements.

2. The towed implement, as defined in claim 1, wherein said first and second coupling assemblies respectively include first and second spherical bearings.

3. The towed implement, as defined in claim 1, wherein each of said first and second arms includes an end flange on an end remote from the associated one of said first and second coupling assemblies, that is releasably clamped to said axle.

4. The towed implement, as defined in claim 1, wherein said first and second arms are symmetrical about a longitudinal center plane whereby they may be exchanged with each other when assembling them to said axle.

5. The towed implement, as defined in claim 1, and further including first and second cushioning elements respectively mounted between said frame and said arms in locations for cushioning vertical pivotal movement of said first and second arms.

6. The towed implement, as defined in claim 1, wherein said frame and said arms carry respective elements adapted for being coupled together so as to limit downward movement of said axle relative to said frame.

7. The towed implement, as defined in claim 6, wherein said respective elements comprise first and second upper pins respectively fixed to opposite sides of said frame, and first and second lower pins respectively fixed to said first and second arms at respective locations spaced vertically below said first and second upper pins.

8. The towed implement, as defined in claim 1, wherein said frame includes a secondary axle extending transversely in parallel relationship to said first-mentioned axle; and said first and second coupling assemblies being respectively coupled to opposite ends of said secondary axle.